Form 621003E
11-02
(Form 1-E)

Iowa Department of Transportation

REQUEST FOR APPROVAL: LOCAL ROAD SYSTEM

LOCATION

1. County/City _____ Sec. _____ Twp. _____ Range _____
2. Over (River, Cr., Dr., Ditch) _____ Civil Twp. _____
3. Road System ☐ Farm to Market ☐ Local Co. ☐ City Proj. No. _____ Sta. Pres. Struct. _____ Sta. Prop. Struct. _____ FHWA No. _____

GENERAL DATA (FIELD)

4. Drainage area _____ Character _____ Approx. length and width _____
5. Extreme highwater: Date of occurrence _____ Information from _____ (Elev. near site _____ Location _____) (Elev. upstream _____ Location _____) (Elev. downstream _____ Location _____)
6. Ordinary highwater. Elev. _____ ft. Occurs every ____ Years. Date of last occurrence _____
7. Average low water: (Elev. at site _____ Average streambed _____) (Water elev. _____ on date of survey _____) (Water elev. _____ upstream _____ ft.) (Water elev. _____ downstream _____ ft.) Fall in stream _____ ft./mi.
8. List buildings in flood plain _____ Location _____ Floor elev. _____
9. Is excessive local scour probable? _____ Probable max depth of scour below streambed _____ ft.
10. Is stream deepening or filling? _____ Approx. amount per year _____
11. Is stream widening? _____ (Show direction, rate, and amount)
12. Does stream carry appreciable amount of ice? _____ Elev. of high ice _____
13. Does stream carry appreciable amount of large driftwood? _____
14. Bench Mark No. _____

PRESENT OR OLD STRUCTURE (FIELD)

15. Superstructure: Type _____ Skew angle _____
16. Substructure: Type _____
17. Span lengths _____ Roadway width _____ Type of floor _____
18. Grade Elev. _____ Date built _____ DOT Design No. _____ DOT File No. _____
19. Condition of superstructure _____
20. Condition of substructure _____
21. Remarks: _____

PROPOSED STRUCTURE (OFFICE)

☐ RA ☐ LA

22. Superstructure: Type _____ Skew Angle _____
23. Substructure: Type _____
24. Span lengths _____ Total bridge length _____ ft.
25. Bridge rdwy. width _____ ft. Approach rdwy.: Width sh to sh _____ ft. Type of surfacing _____
26. Type of railing _____ Type of floor _____ Type of curb _____ Class of loading _____
27. Grade elev. _____ Abut. footing elev. _____ Pier footing elev. _____ Request soundings by DOT? _____
28. Length and type of piling: Abuts. _____ Piers _____
29. Design highwater: Elev. _____ ft Discharge Q = _____ cfs; Bridge Waterway Area _____ Sq.ft.; Frequency _____ Yrs.
30. What provision is made for overflow? _____
31. Can channel be cleared to provide more waterway? _____
32. Are wing dikes to be provided? _____
33. Disposition of existing structure _____
34. Traffic count _____ VPD _____ Year of Count _____
35. Remarks: _____

List fill if RCB or Pipe _____ ft.
Length of RCB or Pipe _____ ft.
Flow Line Left _____
Flow Line Right _____

Notes for Approval Checked _____

County/City _____

Project No. _____

Notes and Recommendations By _____ (City/County Engineer) _____ (Date)

VALLEY CROSS SECTION DATA

The submittal of a bridge type structure will include a right angle valley section. This section should be taken downstream from the crossing. It shall be noted whether it is an average section or a control section. Enough ground shots will be taken to outline the valley to an elevation well above extreme highwater. Special care will be taken to accurately outline the main channel including several streambed shots. Each shot should be identified; that is (FP) flood plain, (TB) top of bank, (ES) edge of stream, etc. Mannings equation roughness factors will be assigned each shot.
Include site photos with this information.

REMARKS: _____

Shot No.	Distance	Elevation	(N) Roughness	Remarks
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Shot No.	Distance	Elevation	(N) Roughness	Remarks
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

PLAT OF DRAINAGE AREA

The drainage area is to be platted as completely and accurately as possible and to the largest practicable scale on a separate sheet. Use a definite scale, as 1" equals ¼, ½, 1, or 2 miles, and indicate what scale has been used. In addition to the outlines of the watershed, indicate the positions of the streams and, roughly, the character of the soil and the relative locations of the steep and flat portions. For most watersheds the information may be secured from the best existing data, soil maps, U.S.G.S. maps, and Bulletin No. 7-1.H.R.B. No plat is necessary if the area is listed in Bulletin Number 7.

REMARKS: _____

Give additional information by reference to marginal number on page 1 of this form.

Marginal No.	

IMPORTANT NOTE

The information given on this form must in all cases be supplemented by complete plan and profile of the site, drawn to a convenient scale on a separate sheet.

The information as shown on this form is essential and must be supplied in detail before the plans can be approved. It may be necessary to return this form for correction unless the data supplied is complete.